



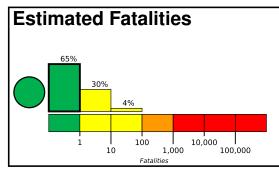


PAGER Version 5

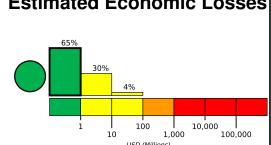
Created: 2 weeks, 0 days after earthquake

M 5.4, 38 km ESE of Takahagi, Japan

Origin Time: 2020-11-22 10:05:53 UTC (Sun 19:05:53 local) Location: 36.5905° N 141.1172° E Depth: 33.0 km



Green alert for shaking-related fatalities **Estimated Economic Losses** and economic losses. There is a low likelihood of casualties and damage.



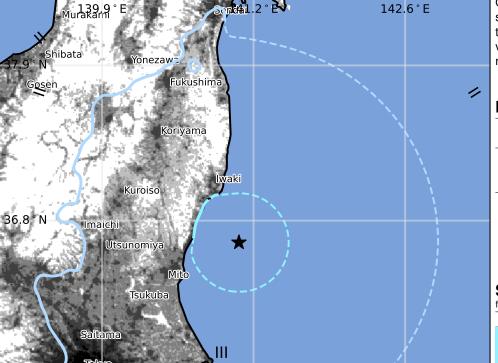
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	45,752k	1,638k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan 1000 5000 10000 S



I Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1983-03-15	376	5.4	VII(259k)	1
1983-08-08	221	5.6	VII(7k)	1
1974-05-08	308	6.7	IX(30k)	27

Recent earthquakes in this area have caused secondary hazards such as landslides and fires that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Takahagi	34k
IV	Kitaibaraki	51k
Ш	Hitachi	186k
Ш	lwaki	357k
Ш	Funaishikawa	35k
Ш	Hitachi-Naka	157k
Ш	Tokyo	8,337k
Ш	Chiba	920k
Ш	Saitama	1,193k
II	Sendai	1,063k
II	Yokohama	3,574k

bold cities appear on map.

(k = x1000)

Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/us6000crfr#pager

PAGER content is automatically generated, and only considers losses due to structural damage.